Item no	Description of work	Unit	App.
40	Additional of Refrigerant R22 Freon Gas (Approved Rates) and as per the direction of engineer in charge of work	Kg	
41	Supply of Linear Bar grille made out of Aluminium Powder Coated (Approved Rates)and as per the direction of engineer in charge of work	Sqm	10
42	Collar damper made out of GI. with powder coated (Approved Rates) and as per the direction of engineer in charge of work	Sqm	2.
43	GI. Volume control dampers manual operated (Approved Rates) and as per the direction of engineer in charge of work	Sqm	4
44	Fire Dampers with Fusible Links rated for 72 C (Approved Rates) and as per the direction of engineer in charge of work	Sqm	2
45	Fire retardant flexible connections CSU (Approved Rates) and as per the direction of engineer in charge of work	No	4
46	Ele.controll panel inter lock with CSUs and condenser unit (For CSU - 01, 7000 CFM, 50 mm Static) (Approved Rates) and as per the direction of engineer in charge of work	set	2
47	Ele.controll panel inter lock with CSUs and condenser unit (For CSU - 02, 4200 CFM, 30 mm Static) (Approved Rates) and as per the direction of engineer in charge of work and as per the direction of engineer in charge of work	set	
48	Ele.controll panel inter lock with CSUs and condenser unit (For CSU - 03, 3500 CFM, 30 mm Static) (Approved Rates) and as per the direction of engineer in charge of work	set	
49	Electrical cabling between condenser & CSUs For CSU - 01, 7000 CFM, (Panel to CSU & Panel to Outdoor)) (Approved Rates) and as per the direction of engineer in charge of work	set	
50	Electrical cabling between condenser & CSUs (For CSU - 02, 4200 CFM, 30 mm Static, (Panel to CSU & Panel to Outdoor) (Approved Rates) and as per the direction of engineer in charge of work	set	
51	Electrical cabling between condenser & CSUs For CSU - 03, 3500 CFM, 30 mm Static, (Panel to CSU & Panel to Outdoor) (Approved Rates) and as per the direction of engineer in charge of work	set	
52	Ms supports for condenser unit with 2 coats of paints (Approved Rates) and as per the direction of engineer in charge of work	Kg	1
53	Fabricating, supplying and erection of ...Mtrs long hot dip Galvanized Conical pole with BSEN 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for .....Mtrs pole in single section and single	No	
54	Supplying, and fixing of Hot dip Galvanized M.S.Bracket suitable for out door luminaries and mounted on Octagonal pole using necessary bolts, nuts etc., complete.Single Arm Bracket with 1000mm Standard 40/50MM dia	No	
55	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.4 core 16 sqmm	m	

Previous		Present			Total up to date	
Qnty	Amount	Qnty	Rate	Amount	Qnty	Amount
30.00	64680.00		2156.0		30.00	64680.00
9.78	188265.00		19250.0		9.78	188265.00
2.50	27720.00		11088.0		2.50	27720.00
4	80080.00		20020.0		4.00	80080.00
2	55440.00		27720.0		2.00	55440.00
4	110880.00		27720.0		4.00	110880.00
2	252560.00		126280.0		2.00	252560.00
1	113960.00		113960.0		1.00	113960.00
1	113960.00		113960.0		1.00	113960.00
2	197120.00		98560.0		2.00	197120.00
1	86240.00		86240.0		1.00	86240.00
1	89320.00		89320.0		1.00	89320.00
		1000.00	339.0	339000.00	1000.00	339000.00
		9	15444.0	138996.00	9.00	138996.00
		9	2111.0	18999.00	9.00	18999.00
		349.00	154.0	53746.00	349.00	53746.00

Item no	Description of work	Unit	Ap
56	LED Street light.Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design &	No	
57	LED Post Top Lantern GARDEN.Supply of LED Post Top Lantern with system ... wattage, housing & frame shall be of powder coated, die cast aluminum, diffuser with high density polyethylene IP65 EPDM Gasket. Life 50000 Hrs. @ L70 shall be conforming to IS 10322/Part 5/ Section 5 @ 230V. 5 years Warranty against any manufacturing defect working under standard electrical condition LED Post Top Lantern with 24 watts	No	
58	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.100-125Amps	No	
59	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.40-63Amps TPN	No	
60	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.40x40x6mm	m	
61	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete.16SWG	Sqcm	350
62	Supplying and fixing Microprocessor Based Astronomical timer Switch with using necessary bolts, nuts and washers.	No	1
63	Providing Rcc Pole pedstal of Size 0.5x0.5x1.6 Mtrs Including digging of pit, tor steel, anchoring bolts nuts ,templates ,Centring,1;4;8base concrete,1;2;4pedestal concrete and etc coplete as per the data sheet enclosed	No	9
64	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV.40mm	m	3
65	Supplying and Fixing of.....mm dia class A GI pipe bracket up to 2 mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole / wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires.Using 32mm dia G.I.pipe	No	3

Previous		Present			Total up to date	
Qnty	Amount	Qnty	Rate	Amount	Qnty	Amount
		12	20592.0	247104.00	12.00	247104.00
		7	17529.0	122703.00	7.00	122703.00
		1	10906.0	10906.00	1.00	10906.00
		2	2129.0	4258.00	2.00	4258.00
		7	289.0	2023.00	7.00	2023.00
		35000.00	0.38	13300.00	35000.00	13300.00
		1	5044.0	5044.00	1.00	5044.00
		9	4619.0	41571.00	9.00	41571.00
		3	379.0	1137.00	3.00	1137.00
		3	982.0	2946.00	3.00	2946.00

Item no	Description of work	Unit	App. Qty
66	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.	No	16
67	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper with low conductor resistance single core wire in open or concealed system of wiring with specified IS-694:1990 & confirming to GTP of GROUP -A.1.5 sqmm	m	100
68	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct.6 sqmm to 16 sqmm	m	350
69	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7)In soil (ordinary)	m	200
70	Conveying the excavated debries and over burden earth etc to a lead 20 kms distances by using private vehicles this including the cost of loading and inloading charges etc	Cum	914.3
	Grand Total		

Certificate

1.The Work executed by the contractor is found satisfactory

2. The contractor hasremoved the debris from the work spot

3. Thereare no departmental issues for this work

Previous		Present			Total up to date	
Qnty	Amount	Qnty	Rate	Amount	Qnty	Amount
		16	193.0	3088.00	16.00	3088.00
		100.00	20.0	2000.00	100.00	2000.00
		349.00	11.88	4146.12	349.00	4146.12
		200.00	85.8	17160.00	200.00	17160.00
851.40	106203.64	62.89	124.74	7844.90	914.29	114048.53
	19240353.24			2433520.62		21673873.86

1-92.40.343-4

Rs. 2.16,73,863-

Asst. Executive Engineer
Project Division.
Yelahanka Zone
Bangalore